

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A leather-like sheet product comprising a surface layer and a substrate which contains a bundle of fine fibers, wherein

the substrate consists essentially of:

(1) a first substrate layer having a structure that is composed of an elastic polymer and a bundle of fine fibers, and the elastic polymer surrounds the bundle of fine fibers and is not existent in the inside space of the bundle of fine fibers;

(2) a second substrate layer (A) composed of a woven fabric, a knitted fabric or an entangled nonwoven fabric which having a structure that is essentially composed of a bundle of fine fibers and contains containing no elastic polymer, and the layer (A) has having a weight of 30 to 500 g/m²; and

(3) the concentration of the elastic polymer in the first substrate layer changes continuously in the direction of thickness, and

the surface layer is formed on the surfaces of the first substrate layer, and

the surface layer is a layer selected from the group consisting of (i) a solid surface layer, (ii) a porous surface layer, (iii) a composite surface layer consisting of a solid layer and a porous layer, and (iv) a suede-like surface layer.

2. (cancelled).

3. (currently amended): The leather-like sheet product according to claim 1, wherein the surface layer is a layer selected from the group consisting of (i) a solid surface layer, (ii) a porous surface layer, (iii) or a composite surface layer consisting of a solid layer and a porous layer and is formed on the surface on the first substrate layer side of the sheet product
wherein the surface layer is made of an elastic polymer.

4. (original): The leather-like sheet product according to claim 3, wherein the surface layer has a thickness of 1 to 200 μm .

5. (currently amended): The leather-like sheet product according to claim 1, wherein the surface layer is (iv) on the first substrate layer side is a suede-like surface layer consisting of napped fine fibers having a fineness of 0.2 dtex or less.

6. (original): The leather-like sheet product according to claim 1, wherein the total thickness of the first substrate layer and the second substrate layer (A) is 0.2 to 5 mm.

7. (original): The leather-like sheet product according to claim 1, wherein the fiber bundle accounts for 40 to 80 % of the total space area of all the voids in the elastic polymer

surrounding the fiber bundle of the first substrate layer in the section perpendicular to the surface of the leather-like sheet product.

8. (original): The leather-like sheet product according to claim 1, wherein the weight ratio of the bundle of fine fibers to the elastic polymer in the first substrate layer is 10:90 to 50:50.

9. (original): The leather-like sheet product according to claim 1, wherein the bundle of fine fibers is an assembly of 10 to 10,000 fine fibers having an average fineness of 0.0001 to 0.1 dtex.

10. (original): The leather-like sheet product according to claim 1, wherein the elastic polymer in the first substrate layer is a polyurethane having a solubility in toluene of 15 wt% or less.

11. (original): The leather-like sheet product according to claim 1, wherein the elastic polymer in the first substrate layer is a porous elastic material.

12. (withdrawn): A process for producing a leather-like sheet product according to claim 1, comprising the steps of:

applying a solution of an elastic polymer to one side of a sheet substantially composed of a fine fiber forming sea-island type fiber consisting of two or more components which differ from each other in solvent solubility to form an impregnated layer;

coagulating the elastic polymer; and

dissolving and removing the sea component by using a solvent which can dissolve the sea component of the sea-island type fiber.

13. (withdrawn): The process for producing a leather-like sheet product according to claim 12, wherein the elastic polymer is coagulated by a dry process.

14. (withdrawn): A process for producing a leather-like sheet product according to claim 1, comprising the steps of:

applying a solution of an elastic polymer to both sides of a sheet substantially composed of a fine fiber forming sea-island type fiber consisting of two or more components which differ from each other in solvent solubility to form impregnated layers in such a manner that a non-impregnated layer is existent in the center portion of the sheet;

coagulating the elastic polymer;

dissolving and removing the sea component by using a solvent which can dissolve the sea component of the sea-island type fiber; and

slicing the sheet into two at the non-impregnated layer.

15. (withdrawn): The process for producing a leather-like sheet product according to claim 12, wherein the elastic polymer is a polyurethane having a solubility in toluene of 15 wt% or less.

16. (withdrawn): The process for producing a leather-like sheet product according to claim 14, wherein the elastic polymer is a polyurethane having a solubility in toluene of 15 wt% or less.

17-27. (canceled).

28. (withdrawn): A process for producing a leather-like sheet product comprising a substrate which contains a bundle of fine fibers, wherein the substrate comprises:

(1) a first substrate layer having a structure that it is composed of an elastic polymer and a bundle of fine fibers, and the elastic polymer surrounds the fiber bundle of fine fibers and is not existent in the inside space of the fiber bundle of fine fibers, and having a density of 0.6 g/cm³ or more, and a thickness of 10 to 200 μ m; and

(2) a second substrate layer (B) having a structure that it is composed of an elastic polymer and a bundle of fine fibers, the elastic polymer surrounds the fiber bundle and is not existent in the inside space of the fiber bundle, and the total space area of all the voids in the elastic polymer surrounding the fiber bundle is larger than that of the first substrate layer; and

(3) the structure of the first substrate layer and the structure of the second substrate (B) layer change continuously in the direction of thickness, comprising the steps of:

impregnating a sheet composed of a fine fiber forming sea-island type fiber consisting of two or more components which differ from each other in solvent solubility with a solution of an elastic polymer (a);

coagulating the elastic polymer to form a fiber sheet material;

forming a surface layer composed of an elastic polymer (b) surrounding the sea-island type fiber in the surface layer without a space therebetween on the surface of the sheet material; and

dissolving and removing the sea component by using a solvent which can dissolve the sea component of the sea-island type fiber.

29. (withdrawn): The process for producing a leather-like sheet product according to claim 28, wherein the elastic polymers (a) and (b) are each a polyurethane having a solubility in toluene of 15 wt% or less.

30. (withdrawn): The process for producing a leather-like sheet product according to claim 28, wherein the elastic polymers (a) and (b) have an area change rate by toluene of their films of 5 % or less.

31. (withdrawn): The process for producing a leather-like sheet product according to claim 28, wherein the surface layer made of the elastic polymer (b) on the surface of the fiber sheet material is formed by lamination.

32. (previously presented): The leather-like sheet product according to claim 1, wherein the first substrate layer has a thickness of 25-300 μm .

33. (previously presented): The leather-like sheet product according to claim 1, wherein the first substrate layer is solid or independently porous.

34. (canceled).